

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits  | Search Query   | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|-------|--|--|------------------|---------|---------------------|
| S35   | 2     | S34 and "binding group"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR               | ON      | 2009/08/13<br>16:11 |
| S34   | 14    | S33 and moiety   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR               | ON      | 2009/08/13<br>16:11 |
| S33   | 224   | "soluble metal oxide"  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR               | ON      | 2009/08/13<br>16:11 |
| S36   | 18717 | (502/305-355,152,156,157).OCLS.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR               | OFF     | 2009/08/17<br>08:11 |
| S38   | 11    | S37 and (("metal oxide" or<br>"metallic oxide") with (crystalline<br>or crystallite))                        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR               | ON      | 2009/08/17<br>08:12 |
| S37   | 204   | S36 and ((("metal oxide" or<br>"metallic oxide") same ("binding<br>group" or moiety or "hydroxyl<br>group")) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR               | ON      | 2009/08/17<br>08:12 |
| S40   | 6     | S39 and ((("metal oxide" or<br>"metallic oxide") with (crystalline<br>or crystallite))                       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR               | ON      | 2009/08/17<br>08:16 |
| S39   | 54    | S36 and ((("metal oxide" or<br>"metallic oxide") same ("binding<br>group" or moiety))                        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR               | ON      | 2009/08/17<br>08:16 |
| S42   | 1     | S36 and ((("metal oxide" or<br>"metallic oxide") same "binding<br>group")                                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR               | ON      | 2009/08/17<br>08:17 |
| S41   | 1     | S36 and ((("metal oxide" or<br>"metallic oxide") with "binding<br>group")                                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR               | ON      | 2009/08/17<br>08:17 |
| S44   | 5     | S43 and ("metal moiety" or<br>"metallic moiety")   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR               | ON      | 2009/08/17<br>08:18 |

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| S43 | 1732 | ("metal oxide" or "metallic oxide") with ("binding group" or "hydroxyl group") | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | ON  | 2009/08/17 08:18 |
| S46 | 3    | ("metal oxide" or "metallic oxide") same "organic binding group"               | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | ON  | 2009/08/17 08:20 |
| S45 | 3    | ("metal oxide" or "metallic oxide") with "organic binding group"               | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | ON  | 2009/08/17 08:20 |
| S50 | 0    | S47 and "metal moiety"   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | ON  | 2009/08/17 16:00 |
| S49 | 0    | S48 and "metal moiety"   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | ON  | 2009/08/17 16:00 |
| S48 | 95   | S47 and ("metal oxide" or "metallic oxide")                                    | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | ON  | 2009/08/17 16:00 |
| S47 | 1542 | (516/53,72,99,100,104).COLS.   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | OFF | 2009/08/17 16:00 |
| S54 | 5    | S48 and "binding group"  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | ON  | 2009/08/17 16:01 |
| S53 | 6    | S47 and "binding group"  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | ON  | 2009/08/17 16:01 |
| S52 | 0    | S47 and "organic binding group"  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | ON  | 2009/08/17 16:01 |
| S51 | 0    | S48 and "organic binding group"  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | ON  | 2009/08/17 16:01 |
| S55 | 48   | "binding group" same ("metal oxide" or "metallic oxide")                       | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | ON  | 2009/08/17 16:02 |
| S56 | 2    | ("4923950").PN.  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERVENT | OR | OFF | 2009/08/17 16:12 |

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| S57 | 4    | (("20020084429"   "20040163758"   "20050048411"   "20070000866").PN. OR ("7531293").URPN.  | US-PGPUB; USPAT; USOCR                    | OR | ON  | 2009/08/17 16:13 |
| S58 | 2    | ("20050131107").PN.  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/08/17 16:22 |
| S59 | 2    | ("4994429").PN.  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/08/18 09:40 |
| S60 | 33   | (("3013904"   "4202798"   "4308079"   "4382016"   "4506628"   "4786628"   "4788176"   "4816159"   "4871711"   "4880543").PN. OR ("4994429").URPN.  | US-PGPUB; USPAT; USOCR                    | OR | ON  | 2009/08/18 10:47 |
| S61 | 19   | (("3013904"   "3799848"   "4308079"   "4383897"   "4388156"   "4399021"   "4448647"   "4788176"   "4957890"   "4994429").PN. OR ("5126210").URPN.  | US-PGPUB; USPAT; USOCR                    | OR | ON  | 2009/08/18 10:49 |
| S62 | 4819 | (428/688,689,472).OCLS.  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2009/08/19 09:29 |
| S63 | 5    | S62 and "binding group"  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2009/08/19 09:30 |
| S64 | 32   | S64 and (tin or titanium or indium or antimony or zinc or vanadium or chromium or manganese or iron or cobalt or nickel or zirconium or molybdenum or palladium or iridium or magnesium) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2009/08/19 09:32 |
| S64 | 33   | S62 and ((moiety or moieties) with (metal\$3 or oxygen))   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2009/08/19 09:32 |
| S66 | 0    | "soluble metal oxide" and S65  | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2009/08/19 09:33 |
| S67 | 9    | "metal oxide" with (surface \$1modified or surface \$1modifying) with (moiety or moieties)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2009/08/19 09:40 |
| S68 | 1    | "metal oxide" with (surface \$1modified or surface \$1modifying) with (binding or linking)   | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON  | 2009/08/19 09:43 |

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| S71 | 7     | S70 and "hydrogen bonding"   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>09:44 |
| S70 | 45    | S69 and covalent   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>09:44 |
| S69 | 252   | "metal oxide" with (surface \$1modified or surface \$1modifying)                           | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>09:44 |
| S72 | 42    | S70 and (particle or particulate or granule or granular)                                   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>09:46 |
| S73 | 68204 | "metal oxide" same (particle or particulate or granule or granular)                        | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>09:56 |
| S75 | 278   | S74 and ((binding or linking) with organic)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>09:57 |
| S74 | 2969  | S73 and ((moiety or moieties) same (metal\$3 or oxygen))                                   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>09:57 |
| S78 | 288   | S77 and ((binding or linking) with organic)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>09:58 |
| S77 | 3039  | S76 and ((moiety or moieties) same (metal\$3 or oxygen))                                   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>09:58 |
| S76 | 73518 | ("metal oxide" or "metallic oxide") same (particle or particulate or granule or granular)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>09:58 |
| S79 | 288   | S75 or S78   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>09:59 |
| S81 | 22    | ((surface\$1modified or surface \$coated) and S79  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>10:00 |
| S80 | 3     | (("metal oxide" or "metallic oxide") same (surface\$1modified or surface\$coated)) and S79 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERVENT | OR | ON | 2009/08/19<br>10:00 |

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| S82 | 4    | ((("6887517") or ("6986943")).PN.  | US_PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2009/08/19<br>10:02 |
| S83 | 43   | ("3117944"   "3268295"  <br>"3411876"   "3411877"  <br>"3515689"   "3901845"  <br>"3997476"   "4010247"  <br>"4091164"   "4169014"  <br>"4211667"   "4327032"  <br>"4349389"   "4420341"  <br>"4496714"   "4532072"  <br>"4676928"   "4764495"  <br>"4900767"   "4929589"  <br>"4952634"   "4992199"  <br>"5212261"   "5418298"  <br>"5593654"   "5593781"  <br>"5814407"   "6207130"  <br>"6224846"   "6228903"  <br>"6322890"   "6369183"  <br>"6602933").PN. OR ("6887517").URPN. | US_PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2009/08/19<br>10:03 |
| S85 | 2    | S77 and S83  | US_PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2009/08/19<br>10:04 |
| S84 | 1    | S79 and S83  | US_PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2009/08/19<br>10:04 |
| S86 | 6    | ((("20060029872"   "6074791"  <br>"6861091"   "6887517"  <br>"6946226"   "7153574").PN. OR<br>  ("7560161").URPN.  | US_PGPUB;<br>USPAT; USOCR                          | OR | ON  | 2009/08/19<br>10:06 |
| S88 | 8    | S75 and S87  | US_PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2009/08/19<br>10:10 |
| S87 | 5030 | (428/403,404).COLS.  | US_PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2009/08/19<br>10:10 |
| S89 | 0    | S89 not S88  | US_PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2009/08/19<br>10:12 |
| S89 | 8    | S78 and S87  | US_PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2009/08/19<br>10:12 |
| S92 | 4    | S75 and S91  | US_PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2009/08/19<br>10:13 |
| S91 | 2536 | (427/214,215,220).OCLS.  | US_PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2009/08/19<br>10:13 |

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| S95 | 6  | S94 and ((binding or linking) with organic)       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2009/08/19<br>10:14 |
| S94 | 77 | ((surface\$1modified or surface \$coated) and S91 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2009/08/19<br>10:14 |
| S93 | 4  | S78 and S91                                       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | ON  | 2009/08/19<br>10:14 |
| L1  | 2  | ("5593781").PN.                                   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO; DERWENT | OR | OFF | 2009/08/19<br>10:36 |

**EAST Search History (Interference)**

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